the official publication of the national knitted outerwear association 386 park avenue south, new york 16, new york 18 RA murray hill 3-7520 sweaters • swim suits • infantswear • knit fabrics • pole shirts • gloves • headwear

ablished weekly (except for a special issue in April in New York, N. Y. Subscription price \$10 per year. Entered as Second Class Matter June 27, 1947, at the Post Office at New York, N. Y. under the Act of March 3, 1879. Copyright 1960 by the National Knitted Outerwear Association.

ol. 29

MONDAY, NOVEMBER 14, 1960

No. 46



Louise Reilly, of Seaford, L., FIT honor scholar is shown neeting Sidney Korzenik, KOA executive director and ounsel, at the Fashion Institute f Technology reception in New fork for honor scholar winners. Hiss Reilly is this year's winner of the scholarship presented by

the National Knitted Outerwear Association. Mr. Korzenik is a trustee of the Fashion Institute.

The college, sponsored by the State, New York City, and the apparel industries, now enrolls 1,200 full time and 2,000 part time students from throughout the world.

eptember Sweater hipments Ahead

WASHINGTON, D. C.—hipments of women's, misses' and juniors' sweaters in Septemer were two per cent ahead of he corresponding month last ear, the Bureau of Census repeted. In the same month averge monthly shipments of men's weaters moved ahead by one er cent from September, 1959. For both product categories, he September shipments had eclined from the preceding onth — 33 per cent for womn's, misses' and juniors' sweaters and 17 per cent for men's reaters.

September, 1960, shipments (Continued on Page 29)

Fiber Consumption By Spinners Dips

WASHINGTON, D. C.— The weekly average rate of fiber consumption on the woolen and worsted systems in September was 15 per cent below the August rate and 11 per cent below the September, 1959 level, according to the U. S. Bureau of the Census. Production of manmade fiber top from tow without combing is excluded from this tabulation.

The weekly average raw wool consumption during September was 7,487 thousand pounds (scoured basis) or 13 per cent below the August level and eight per cent below the September,

(Continued on Page 29)

Ladies' And Misses'

Classics Lead New England Show; Cardigans, Pullovers Also Strong

BOSTON, Mass.—Some new basic styling was introduced at the holiday-cruise showing of the New England Apparel Travelers October 9-12. If acceptance of these designs continues, they will probably appear in additional colors for spring.

Classics were the most popular, but boxy hip length cardigans and light waist length pullovers also accounted for good bookings. There was a noticeable increase in the amount of multi-color combinations with one tone predominating. More wool than usual appeared in women's knits.

Wool was used for a bulky open front cardigan simulating handknit, by Fairfield Knitwear. This was a boxy garment with a narrow cuff on a three-quarter sleeve in iris, blue, green, beige, straw, shrimp, gold, black and white. The body of the sweater was made up of a check fabric pattern in panels extending horizontally at eight inch intervals and over and under loop stitching extending vertically, outlined the two front openings.

Brushed Wool

In brushed wool, Fairfield had a selection of eight-button cardigans with an inch and one-half of ribbing on the round neckline—the firm's version of the new Sheltie Mist look. The reverse of the button bands was lined. Murray Katz, representative, said sales of this sweater were extremely good in solid shades including beige, straw, iris, shrimp and gray.

A line of waist length pullovers was also in demand. In this selection Helanca was outpassing Ban-Lon. The garments were short skirt with threequarters of an inch of ribbing about the neck and a four inch rib waistband of fine gauge.

New here was a cotton bulky cardigan by Fritzi of California. It was a jacket style trimmed with five matching buttons and pockets on the hem. The backing was foam rubber and rayon lining in a lighter share of the base color. The pockets were also lined. There was vertical ribbing on the body and diagonal on the long sleeves. It came in light grey, beige, black, bronze, loden, bankers gray and teak-

Cardigans Selling

Classic style cardigans in wool were also in Venice Knitting Mills line of Alice Kaye Originals. They were selling exceptionally well, according to Ralph Kalner, representative. One favorite had long sleeves, a round neck of two-on-one ribbing and an intarsia pattern in three inch wide panels, worked in two colors, extending down either side of the button bands which were decorated with eight matching buttons. The color combinations were lilac, blue, banana, mint, butter pecan and strawberry with white and in a reverse pattern.

For the firm's all wool bulky boatnecks, five color jacquard was used in an all-over horizontal pattern. A drop sleeve eliminated the 'sewed-on' effect. The style was offered in four

(Continued on Page 11)



SELLING AGENTS

Starley Porter, New York City - Pfizenmaier & Kir C. L. Miller & Sons, Utica, N. Y. - Anthony, Cheatham &

Pfizenmaier & Kirkland Co., Boston, Mass. • W. J. Miller, Philadelphia, Penna.

Anthony, Cheatham & James Yarns, Inc., Burlington, N. C. • D. F. Swain Co., Chicago, III.

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Kultred Outerwear Times being official publication of the Na-al Kultred Outerwear Associak nitted Outerwear Associaia, is exclusively devoted to the
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FEATURES IN THIS ISSUE

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Knitting Equipment Developments

New Spring Needle Machine For Carpets

By CHARLES REICHMAN, Editor

KNITTED fabric, in addition to competing aggressively with woven cloth in numerous apparel end-uses in which it had never before been employed, in the past year has been penetrating into many household and industrial applications in which the woven construction has long been dominant. One such area is the \$670 million carpeting business.

Knitted carpeting is, of course, still in its infancy; as compared to woven and tufted carpets, knit floor coverings represent but a fraction of the 144.5 million square yards produced in 1959.

High hopes, however, are held out for carpets produced via knitting as distinguished from weaving and tufting. One factor on which these optimistic expectations are based is the development of new, large diameter circular knitting units capable of turning out carpeting faster and more economically than it is now manufactured on the tufting machine. The latter in the past few years has displaced the carpet loom as the chief means of producing carpets. Output of tufted carpets in 1958 totaled 113.5 million square yards, representing 60 per cent of production of all types of carpeting in that year. Before World War I, the manufacture of tufted carpets totaled a mere 3,000,000 square yards.

Apart from speed and economy of production, the chief advantage of producting carpets on a knitting machine is that, as in the case of the carpet loom, both backing and face can be produced simultaneously; only on the tufting principle are the backing, scrim and face manufactured separately. The tufts are stitched on the tufting machine to a previously produced backing sheet. The scrim, made of kraft cord, is anchored to the backing as further reinforcement.

Up to now, knitting machines for the production of conventional cut pile and loop pile carpeting (this classification does not include high-pile throw rugs made on the sliver knitting machine) have been of two basic

1. Specially designed Raschel warp knitting machines.

2. Circular latch needle sinker top machines.

Last week's announcement by Tompkins Bros. Co., Syracuse, N. Y., that it has developed two new machines for producing carpets, carpet backing and paper scrim for tufted carpets, adds a new means for producing knitted carpets — the circular spring beard needle machine.

Of the two established means of producing knitted carpets the Raschel machine and the latch needle jersey machine the latter is the relatively more recent method. Only one knitting machinery manufacturer, Scott & Williams, Inc., has brought out a machine capable of producing cut pile or loop pile knitted carpet material. The Scott & Williams unit is the company's Model LLP.

The Raschel method of carpet production involves the use of a needle bar, point bar and three guide bars for feeding the loop and ground and backing yarns.

The two new Tompkins, spring beard needle units are a 70-inch diameter machine and a 54-inch diameter model. The former produces the carpet, backing and paper scrim in lengths of 15 feet wide and the latter in lengths of 12 feet wide. Except for the difference in the diameter of the cylinder, the two models are virtually the same in functioning and basic specifications.

Tompkins plans to produce the two models in eight, 10 and 12 gauge. On Tompkins spring needle machines, gauge is calculated on the same basis as on the Cotton's Patent fullfashioned machine; that is, the number of needles per inch and one-half of the cylinder. Thus, a 12 gauge Tompkins machine has eight needles per inch. Tompkins can turn out these carpet machines in up to 18 gauge or 12 needles per inch.

The basic Tompkins carpet machine is equipped with 12 knitting feeds. Each feed comprises five basic elements:

1. A sinker burr for feeding yarn into the hooks of the spring needles.

2. A presser to close the hooks of the spring beard

3. A lander burr which is designed to lift fabric loops and enable them to pass over the closed beard. Actually the operation of the lander burr is synchronized with the presser.

4. Cast-off burr, the purpose of which, as its name implies, is to facilitate the casting-off or the stitch knocking-over action.

5. A clearer burr. The purpose of this mechanism is to assure that the fabric and loose yarn have been cleared from the needles to facilitate the feeding of the yarn onto the needle beards by the sinker burr.

Except for the larger diameter of the cylinder and certain other minor modifications, the two new Tompkins carpet machines conform to the general pattern of, and operate on the same knitting principle, as the smaller diameter Tompkins machines that have been used in the industry since 1846 for the production of a wide variety of fine gauge plain, fleece and terry underwear and outerwear fabrics.

Although specific details on the two new carpet machines were not disclosed in the company's announcement, it is understood that they operate on the same principle as the smaller diameter Tompkins machine used in the manufacture of terry face materials.

The two new machines, it is inferred from this, can turn out carpeting on either a cut pile or loop pile basis.

The loop for the former is knitted high and then shorn in a separate operation. In loop pile carpeting, the loops are more closely drawn and protrude as a tight curl. In either case, the surface is firmly anchored to the carpet backing by a ground yarn.

As in the manufacture of terry fabric on Tompkins machines, the loop yarns on the new Tompkins carpet machines

(Continued on Page 5)



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are fed by special terry burrs—
for tight loops two terry burrs;
for extra high loops three terry
burrs. The backing and paper
scrim are, naturally manufactured on the simple jersey stitch
principle.

Terry And Sinker Burrs

The terry burrs are quite similar in appearance to the sinker burrs. The difference between the two mechanisms rests largely in the shape of the burr blades. In the terry burr the blades are designed to feed a longer loop into the hook of the spring beard needle than the sinker burr is capable of doing. The terry burr also differs from the sinker burr in that it has a block between the alternate blades, the purpose of which is to close the beards of alternate needles while the needles adjacent to them are being supplied with loops

The method of loop formation involves feeding of the first loop yarn by a terry burr to alternate needles. The blocks on the burr close the beards of these alternate needles with the result that loops are cast off on alternate needles. A second terry burr supplies yarn to the needles



Tompkins' new 54-inch cylinder spring needle circular knitting machine for production of carpet, carpet backing and tuffed carpet scrim. A 70-inch cylinder model is also available.

that were not fed and closed by the first terry burr. The action of this second terry burr is the same as the first terry burr. The two sets of yarns are now looped alternately on alternate needles. Locking of these loops in place is accomplished by a ground or backing yarn fed to all the needles by a sinker burr and cast off by the action of the lander burr and presser and the cast-off burr.

If the backing is to be knitted simultaneously with the carpet surface, a stabilized yarn such as jute or cotton must be used for knitting the backing. The paper scrim, as previously indicated, is knitted independently for adhesion to the tufted carpet backing in a separate operation.

Whatever the type of material used in the knitted carpet backing, it must be treated, as is also true of tufted and woven carpets, with a backcoating material which will firmly affix it to the cut pile or loop pile face.

The choice of backcoating agents is extensive and includes natural and synthetic latices. The first group consists of

(Continued on Page 28)

Laminated Knits

Use Of Foam-Backed Fabrics Widespread And Growing

By ALAN SIEGLER

A RISING wave of foam is sweeping across the knitwear business. Laminates fusing urethane foam to an unprecedented range of knitted fabrics have caught on as never before, according to a survey taken of laminators, converters and manufacturers in their offices and at the recent annual exhibit of the National Outerwear and Sportswear Association.

"This year the scope of laminates is wider by far," says Howard S. Baron, one of the pioneers in the laminated knits business. "It is the first year of real acceptance. To give you an idea—last year at our exhibit we had to have a sewing machine. The manufacturer didn't know how to use laminates. 'Show me what it's all about,' he would say. This year we don't need a sewing machine. They know. People who use laminates are learning how to cut and style."

Mr. Baron attributes the boom to the improvement of technique and the advantages of laminating.

"Last year the laminator didn't know how to control the process. This year it is no longer a problem. It has been a life

saver for the knitting industry. The fabrics wear well, look well, sell well. There was no overhang of merchandise, no closeouts. New materials can be used. Cotton knits, for instance, are now-good for outerwear. Laminates hold shape."

Mr. Baron calls his foam BaRon. He shows the visitor the rolls of laminated fabric in his busy shipping room. There are pastel tones, a new "tire cord" and the sandwich, with lamination on both sides.

He foresees the volume of all laminates in the industry jumping from five or six million yards this year to 20 million and more.

At the NOSA show, the majority opinion is expressed by a representative of one of the largest mills, who says, "We are laminating everything we can get our hands on."

General Foam Corporation, manufacturer of urethane foam predicts a 100 per cent increase in consumption of urethane by the apparel industry in 1961, reaching one million pounds.

Down the hall, Fair-Tex Mills, Inc. displays a boys' 100 per cent Ban-Lon jacket in a double lamination or sandwich. It is black and gold, a rubbery little garment that is selling well. In swimwear and slacks, a stretch nylon in a double lamination also is selling. Creslan in a double lamination and 80 per cent Orlon, 20 per cent wool in a single are close behind in sales. All the laminates are water repellent.

Princeton Knitting Mills, Inc., showing laminates for the first time, is laminating an all-wool knit fabric and 100 per cent nylon with a suede finish, called Purr-Suede.

Originit Fabrics, Inc., also concentrating on laminates, foresees a rush on rainwear and a market explosion for all laminates. — "at least 15 million yards," a spokesman says.

Beaunit Mills, Inc. is laminat-(Continued on Page 28)

HOW LIGHT IS FOAM?

LAMINATES turned out by A. D. Gosman, Inc., have been weighed in the balance and found light. Fabrics were placed on a scale at the company's exhibit of its Perma-Bond foam at the National Outerwear and Sportswear Association show. The demonstration showed that a 1/16th inch thick slab weighs approximately one and a half ounces per square yard. The company said the foam in a quilted combination will give approximately as much insulation as six ounces of reprocessed wool batting.



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TIMES

Mill Modernization

Headwear Mill Consolidates Operations In New Plant

By BENN OLLMAN

MILWAUKEE, Wis .- The old and the new mesh perfectly in the new headquarters of the Reliable Knitting Works. After years of combatting overcrowded conditions, the knitted headwear manufacturing firm finally has plenty of breathing place. All its departments are consolidated under one roof. "We've got plenty

of room for a while at least," says executive vice-president Herb Polacheck. "But, remember, we are still growing.'

Most plant expansions involve the transfer of the company's operations from an old building to a new, modern structure. Reliable's change is different. The move made last August was to an older building.

"But, this building is in such excellent condition and so much larger than the quarters that we formerly occupied," says Pola-"We couldn't be hapcheck. pier."

50th Anniversary

Newsworthy too, is the fact that Reliable will shortly celebrate its 50th year, with Samuel Rosenberg, one of the founders, still active in the business. In 1911, the three Rosenberg brothers, Arim, Samuel and Joseph started the firm with a total capital of \$2,500.

Arim, who died last summer. at the age of 82, and Samuel came to Milwaukee from Cleveland. They had learned the knitting trade there as youngsters, working as mill hands. In Mil-

waukee they both took jobs with the old Great Western Knitting Mills. The other brother, Joseph, meanwhile, had entered Yale University, then migrated to California; he later became a vice-president of the Bank of America and now resides in Pasadena.

Hockey Cap Machines

"We began with headwear," reminisces Samuel Rosenberg, "because the machines required for knitting hockey caps were simple ones, and the investment needed to get started was relatively small. Arim and I had no money. Our brother Joseph provided the capital to get us started."

The five-story brick structure was built in 1896 for Rice-Friedman Company, a garment manufacturing firm that went out of business 20 years ago. It has remained in use, however, through the years, by a variety of tenants.

"In fact," Polacheck points out, "in recent years we had been renting a small area of the building ourselves for warehousing. We were familiar with

the fine possibilities it offered for a knitting mill operation, and had our eyes on the building for some time.

Reliable now has 85,000 square feet of space. This compares with the 55,000 square feet formerly occupied in two buildings plus an outside warehouse.

The plant today is an object lesson in how to develop knitting mill efficiency in an older industrial building. Reliable rejected the trend among established mills to flee the crowded city for the promised gains of the more roomy suburbs and small towns.

"We're still in the big city, where we have all the advantages of plentiful labor supply, good transportation for our employes and the municipal services we need," Polacheck notes.

Cost Estimated

The shift to the new headquarters cost Reliable an estimated \$250,000. Included in this figure was an outlay in excess of \$100,000 for new machinery and other plant equip-

Speeding up and simplifying the flow of work was the prime objective in engineering the building for occupation by Reliable. Results to date, have been

(Continued on Page 9)



Overhead conveyor belt system throughout the plant slashes the amount of footwork needed to move materials from one department to next. Operator is shown here hanging a tote box on the overhead hook which will take it to the next step in the production line.



Yarn storage capacity has been increased threefold through use of tri-level palletized system. Employe is shown here using electric lift to move box of varn into place.



Installation of conveyor belts between rows of sewing machines has boosted efficiency. Operators toss finished work on the conveyor, which carries it to the open chute through which it is sent to finishing on the floor below.

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very gratifying. Still in process is a complete restudy of the production control system by the company's industrial engineer.

The flow of work commences at the top of the five story building. This is the production pattern, floor by floor:

- Fifth floor-Used for warehousing of materials. At present only about half of this floor is being put to use. This floor also includes a new portion, added to the building by the previous owner. Eventually it will be used entirely for pro-
- · Fourth floor-Yarn room and knitting department.
- · Third floor Steaming, pressing, cutting, sewing and design departments.
- · Second floor-Hand finishing, packing and inspection.
- · First floor-Shipping, storage and executive offices. Basement-Storage.

An automatic belt and overhead conveyor system links each floor and all departments in the plant. Clogged elevators; tugging and hauling of tote boxes and cardboard containers around to various departments have been eliminated by the conveyor system.

In the former plant, the knitting department was cramped for space; aisles between machines were narrow. The yarn supply was stacked on one side of the room. Machine operators all had to walk to that side of the room whenever they needed more yarn.

Today, yarn is kept on both sides of the room, just a few steps away from any machine on the floor. A lot of steps are saved; time and energy conserved.

We have enough space in this building to take care of our present needs and at least another 25 per cent expansion in production," says Polacheck. A total of 130 knitting machines are in use. There is room to add another 65, if and when they are needed, he maintains.

Storage of yarn has been updated. All yarn containers are hoisted to racks, using an elec-tric lift truck. The boxes of yarn are stored and identified on the tri-level racks, according to a numbering system.

This new, palletized yarn



This is how the waste material is collected from all five floors of the Reliable Knitting Works building. Scrap is tossed into chutes and deposited in boxes in the basement.

storage system has a number of advantages over the firm's previous method: (1) It increases by threefold the amount of yarn that the mill was previously able to keep in stock; (2) makes for quicker availability and easier handling of the heavy yarn boxes; and (3) provides for a quicker inventory of the yarn supply by eliminating crowding.

The hooks on the overhead conveyor system are painted in colors which designate the various departments. Materials in boxes heading for the steaming department, for example, are hung on yellow hooks; red hooks, according to the conveyor belt code, stand for the

knitting department, white for

the pressing department, etc. Finished knitting work no longer needs to be put in tote boxes and trucked to the steaming department. The pieces instead, are placed on the conveyor belt that moves between the rows of sewing machines, and are carried down to the steaming department on the floor below.

Six five-ton boilers were installed to provide pressure for the steaming equipment. "These five ton units don't require a licensed fireman on the premises at all times," according to Polacheck. "In our old place we had huge steam boilers and

had to have qualified, licensed firemen on the payroll to op-erate them."

Skids, baskets and huge cardboard cartons for transporting materials about the plant have been eliminated. Everything now moves on wheels. Over 200 hand trucks and canvas baskets on wheels were purchased when Reliable moved into its new plant. The use of wheeled equipment for moving materials has added considerable mobility to the entire operation. Women employes, who make up the bulk of the firm's working force, are able to handle these baskets easily on the job.

A partial listing of some of the new equipment installed when the move was made includes three seven-inch Scott & Williams Brinton type machines; six new Tompkins headwear seven-inch toque machines and 15 sewing machines.

The supply of boxes for shipping finished goods to customers no longer is a problem. They make their own boxes now. A box making machine, included in the plans when the switchover was made, has been paying excellent dividends.

"We have absolute control now of the box situation," says Polacheck. "Today we no longer have to worry about whether the box manufacturers will be able to keep us supplied. We make all of our own boxes now."

Not only is the ready-made inventory of boxes a dollar and cents saving not to be ignored, says Polacheck, it also conserves valuable plant space.

New, laminated table tops for all of the firm's 120 sewing machines were also installed. "These new sewing machine table tops have resulted in a 100 per cent improvement in efficiency," Polacheck claims. "They are roomier, and nothing can stick to them.'

Plenty of parking space for the employes and plant visitors is available. There is a spacious gravel topped lot in the rear of the building, and a big loading dock with room to handle three semi-trailers at the same time.

Reliable Knitting Works' major items are infants' and childrens' headwear, sold to the (Continued on Page 21)



Sample boards are located on swivels near each department to help workers identify items in the Reliable Knitting Works line. Joe Kohn, head of production, is shown checking one of the numbers.



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Ladies' And Misses'

Classics Pace Sales At Show

(Continued from Page 1) color combinations which combined two tones of lilac, two tones of blue and white; butter pecan, vanilla, mint and white with a predominating banana tone; red, green, black and white with gold predominating and a purple combination with blue.

black, white, and red with the purple.

In the Irwill Knitwear line, a taffeta lined one-piece dress and a one-piece dress with a matching over-jacket of 75 per cent mohair and 25 per cent wool blend were new and selling well. The taffeta-lined dress was a sleeveless boatneck with a one inch wide band of elasticized rick-racking at the waistband. It was fitted with a long hangdown waist cord of the same material. The dress worn with the jacket had a deep V-back and the three-quarter sleeve waist length jacket had rickracking on the cuffs, about the hem and down the front openings. The dresses and matching jacket were in solid black, beige, turquoise, ruby, amethyst and green.

Irwill's bulky wool cardigans had a notched collar and a three-quarter sleeve waist length jacket trimmed with five buttons. The collar and button band were edged with an inch and one-quarter of rick-racking and the body was made up of what appeared to be a loose lace stitch separated by columns of link stitching on the front and back.

In Orlon, the line had an American Riviera collection of hip length boxy cardigans with wide flare collars. On one, five extra large ligned buttons were on a wide button band of an inch and one-half of two-onone ribbing with two inches of ribbing. On another, vertical ribbing contrasted with the horizontal body ribbing in eight inch panels down either side of the front. The reverse side of the button bands on these sweaters were lined with grosgrain silk and the collection consisted of solid white, beige, lilac, green and black.

Orlon and multi-color mixes

were used for a selection of modified boatneck, boxy slipons by Euclid Sportswear. An oblong pattern extended horizontally to create a multi-color and slightly wavy stripe.

Color Combinations

The combinations were white, charcoal, brown, yellow and camel; lilac, light grey, white, green and purple, and two tones of green with white, lilac and light grey.

Euclid also had a knit blazer or yacht jacket, in a Continental look both of bulky cross or quilted stitch. The rounded, notched collar, button band and hem, rounded at the front, were edged with three-quarter inches of blue piping on a white body. This was trimmed with three blue buttons set close at the midriff.

A waist length cardigan had a checker trim on the three-inch cuff and hem. Combinations were two tones of lilac on white; red and white on grey; white and gold on brown; white and stone green on loden and black and white on yellow. The lapping collar extended to a V and

the trim consisted of six buttons, two set close on the hem.

Striped pullovers, tunics with and without hoods and open front jackets in worsted, to coordinate with pants and skirts, were on feature by Knitmaster. The pullover had short sleeves and rounded neck, buttoned at the back, and was made up in an over-all pattern of vertical stripes of three-quarter inch width of navy and white and lilac and white. Hairline striping of the blue or lilac on the white made for a multi-color affect.

The hip length tunic style has three-quarter sleeves and a one inch wide waist tie. The collar laps back and is as wide as a boatneck but extends into a curving V. It is also in a hood style, overlapping at the V, with elbow length sleeves in which there is a sleeve pocket, four inches deep, on the left.

Olympic Knitwear's big reorders were coming in for a cup and saucer style especially popular with slacks. This was a baby shaker with a four inch yoke, double strength, sewed on well down from the neck, and

(Continued on Page 13)

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two-on-one ribbing on the crew neck and yoke which is about four inches wide. It comes in eighteen shades including chamois, topaz, caramel, three tones of green and a great favorite here, lilac.

Frank Sherman the representative of the line, reported substantial sales of a rayon sheath a jumbo knit combination of a cowl neck and turtle neck of contrasting colors, recently illustrated on a McCall's cover. This had a cowl four inches deep extending into a turtle neck three inches deep. The cowl is sewed down but the cowl and crew neck insert appear to be knit in a piece and there is a two inch lap under the cowling.

Color combinations were: sky violet base with white crew; white with blue, black, orange, green; yellow with orange and green with blue.

Knitwear Abroad

Orlon Sweaters In U. K.

MANCHESTER, England— In a lavish presentation, with a film complete with incidental music and special lyrics, the Du Pont Company (United Kingdon't; Ltd., displayed knitted garments in Orlon to well over one bundred buyers, fashion writers and journalists recently in one of this city's largest botels.

Orlon Cantrece, which has been powerfully promoted in the British knitwear industry, was featured in knit dresses and jumper suits, and for the first time Du Pont included men's Orlon knitwear in a show of this kind. Brushed sweaters and male versions of chunky bulky knit styles were shown.

Also shown were selections of garments from the recently announced London and Florence collections, and Downies, sweaters for women in fabrics that have been napped and sheared after knitting. It was said this type of knitted garment has been successfully established for over a year in the U. S. Du Pont, it was said, is confident that these Downies will prove as popular as the brushed shaggy dog sweaters.

Orlon and wool, used in a 70/30 blend was featured in a range of dresses, suits and coats made from double jersey. The company explained that this

blend gives the best of both worlds; like wool, the fabric is easily tailored and has good drape, but the acrylic fiber gives easy care properties, washability and extremely attractive handle.

Probably the item which caused the most interest in the show, however, was the printed sweater. It has been known that for some time Du Pont technol-

sweater. It has been known that for some time Du Pont technol-

ogists have been doing work in the acrylic printing field. Now, for the first time the result of their labors was to be seen in a number of white Orlon sweaters, each of which carried a colorful printed design.



Orlons shown by DuPont to a large audience in Manchester, England.



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Dyeing

IMES

Improved Scouring Techniques Advised

BUFFALO, N. Y. — A method for improving the efficiency of synthetic fiber scouring in preparation for dyeing was explained here on November 4 by Joseph S. Panto, senior research associate, Fabric Research Laboratories, Inc., Dedham, Mass.

Monthly Meeting

The occasion was the monthly meeting of the Niagara Frontier Section of the A.A.T.C.C.* Panto's paper, which was coauthored with Ernest R Kaswell, FRL associate director, was titled, "Research Techniques in Synthetic Fiber Dyeing."

It is well known, Panto said, that a synthetic fiber must be void of all contaminants in order to accept dye properly and uniformly. Scouring, of course, is the method used to remove the contaminants.

The specific nature of the contaminants, however, and the time, temperature, and chemi-

cals needed to remove them are frequently not well known, he said. By a precise definition of the problem it is often possible to establish scouring procedures considerably more efficient and less expensive than those being used. In other words, according to Panto, lacking a precise index of what must be removed many dyers are overscouring with a loss in time and money, and a degradation of fiber properties.

The most common contaminants fall into four classes: (1) antistatic agents which producers introduce in fiber extrusion; (2) the lubricants applied during yarn spinning; (3) sizes applied to the yarn for abrasion resistance, and (4) waxes.

Ultra Violet Identification

All of these substances can be identified by their ultraviolet reflectance curves, Panto said, and it is a relatively simple matter to put a special ultraviolet attachment on a standard spectrophotometer thereby permitting measurement of reflectance in the U.V. range. Most dyehouses use spectrophotometers for color measurement and consequently already

have the basic equipment, he said.

Contaminants

Defining the contaminants and measuring their presence during various stages of scouring and under various scouring conditions make it possible to establish scouring specifications minimizing the necessary time and maximizing the efficiency of the operation, according to Panto. He claimed that the costs of U.V. equipment and measurements are very small compared to the savings that may be realized, and that a skilled technician can easily perform the tests if experiments have been properly designed by a qualified chemist.

Antara Introduces

Antara Introduces Surface Active Agent

Antara Chemicals Division of General Aniline & Film Corp., anounces the introduction of a new series of surface active agents. These new anionic surfactants will be sold under a newly established trade mark as Gafac Surfactants.

The initial application areas

for the surface active agents include cotton boil off and bleaching, wool scouring, antistaticemulsifier-lubricant, heavy-duty liquid detergent cleaning compound, emulsion polymerization, pesticide emulsifier, metal cleaning and dry cleaning fields.

In the textile field, the Gafac Surfactants are of value in fabric preparation and finishing applications. The compounds are said to have exceptional solubility, chemical stability, antistatic and lubricating properties, and oil and water emulsification characteristics.

Four Gafac Surfactants (Gafac GB-520, PE-510, LO-529, RE-610) are now commercially available and two others, Gafac RM-510 and Gafac RM-710 are being readied for commercial use.

Gafac GB-520, available as a 95 per cent active sodium salt, was developed particularly as an emulsifier - antistatic lubricant, useful in the processing of nylon 6 and other synthetic fibers.

Both Gafac RE-610 and Gafac PE-510 are effective surfactants for use in kier boiling and continuous caustic boil-off of cotton piece goods.

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*"Orlon" is our registered trademark. When you use it: Distinguish it—Capitalize and use quotes or italics, or otherwise distinguish by color, lettering, art work, etc. Describe it—Associate it with its generic term—i.e., "Orlon" acrylic fiber. Designate it—As Du Pont's trademark for its acrylic fiber in a footnote or otherwise.

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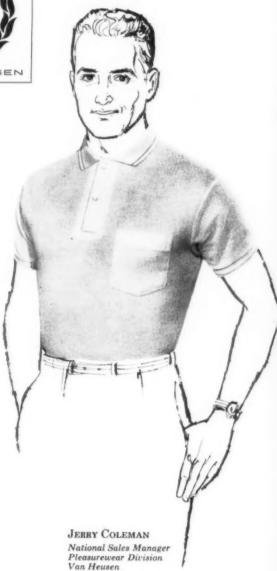
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New Pleasurewear from Van Heusen – this all-cotton knit polo shirt made of Durene for sports and leisure wear. It's crepe stitch, boasts ribbed collar and cuffs with neat edged trim, comes in nine high fashion colors. And finest Durene mercerized cotton yarn makes it easy to wear, easy to care for. Always specify S-C-T Durene for free-running uniformity, finer quality.





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Knit Ensembles Will Make Up Half Of Catalina's New England Sales

BOSTON, Mass.—Samples of 1961 Catalina swim suit styles will be ready for display here October 15. Buyer interest has been running high, according to Myron Benson, the firm's New England representative.

Knit swimwear is expected to constitute 40 to 50 per cent of the

total sales in this area, which is second to New York in national

importance.

IMES

Promotion of women's swimwear will be centered around a "Garden of Eden" theme and men's and boys' around a new British look. Recently, Catalina added five designers to its staff to create the new styles. Vyrene and Antron have been added to Dacron, Helanca and Orlon and the other fibers of past seasons.

Lightweight materials, knit or Terrot machines, for which Vyrene is especially adapted, and a silky textured fabric of Antron will be used. Wool is out this

season.

Prints are expected to outsell solids. The company is bringing out two new silhouettes—one, a tunic effect, the other, a dressmaker boy leg for heavier figures. The purples, which were successful in fall promotions, will be carried in addition

to the familiar greens and golds.

Mr. Benson said a big expansion has taken place in swimwear for children from 2 to 16. High fashioned knits are in demand for these sizes. Orlon has been added to these lines which were formerly confined to cotton.

The silky Antron has been used for muted floral prints with blue and orange predominating, for tailored boy leg silhouette and for a selection of pleated drape styles. Lightweight Vyrene, Helanca and Orlon knits have been made up in sheath styles and one- and two-piece maillots in black, aqua, coral, yellow, blue, red, green and violet solids.

Mr. Benson said men were more style conscious. The company has introduced a collection of cotton trunks and tops of

(Continued on Page 21)



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"Evargiaze" Marketing Division, Wilmington, Delaware, supervises the international merchandising of products approved to carry the Joseph Bancroft & Sone Co. trademarks "Ban-Lon" and/or "Evergiaze".

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matching prints representing British settings. The two-color prints are sharp in subdued tones on spice, olive and blue.

Medium length boxer shorts predominate, but other trunk styles are well represented. One, the Piccadilly Lane, has a terry cloth lined top with a zipper closing, short cuffed sleeves and an open sailor collar. The twocolor print pattern runs in vertical rows with a terry cloth cord separation.

A second, the Bengal, is a batik print. The top has an open slit front fastened with five buttons. The intricate print pattern is in four inch panels down the

A set of trunks, the Light Brigade, has gray vertical stripes edged in red on one side and gold on the other, alternating with green. A designed flap is over the watch pocket and the belt is shirred about four inches on either side and fastened with a button simulating a shot gun shell in the front.

A fourth style, the Malolo British Colony, has a top with a pocket set low on the chest and comes in an all-over check pattern of brown and gold or spice and blue. The trunks have a shirred waist band all around and a deep square flap on the watch pocket. This check pattern and style is the family group designed also for women and children.

All the tops in this group are loose and boxy and may be worn with sea knickers, deck pants or swim trunks

Mill News

Koret Of California Opens New Showrooms

SAN FRANCISCO, Calif.— Koret of California has opened a new showroom at 846 South Broadway, Los Angeles.

For the second consecutive year, Koret has been chosen as creator of the official wardrobe for the National Wine Oueen, blonde Miss Ann Henderson of San Francisco. She will travel throughout the state this fall appearing at wine festivals, wine tasting parties and on TV and radio programs.

Stephanie Koret, director of design, has selected coordinates in velveteen, wool, corduroy, brocade, and lamb for the Wine Queen's official wardrobe. The fashions, which emphasize vintage colors such as grape, golden sherry and grapeleaf green, include travel fashions, tailored dresses and coordinated jackets and skirts for informal events and after-five coordinates.

Reliable Knit Mills Consolidates Operations

(Continued from Page 9) jobber trade. They also produce a widely sold line of slipper socks called Scuffies, which move directly to the retail channels. Scuffies are not knitted goods; Reliable buys the woven fabric uppers and sews them to rubber foam soles.

Accounting for an appreciable share of the firm's volume is a line of Orlon knit slumber socks. Nylon stretch slippers are also part of Reliable's offerings to the retail trade.

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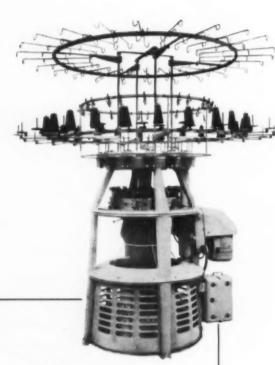
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Brownie Names Two As V.P.'s And Sales Heads

Milton Pogash has been appointed general sales manager of Brownie Knitting Mills, Inc., and has also been named a vice president. For the past ten years he was associated with Melvin Sportswear Co., Inc. Before that he was main floor merchandise manager for Franklin Simon and sportswear merchandise manager of Montgomery Ward & Co.

Armin Gold, who has been a salesman for Brownie for the past 22 years, was promoted to vice-president and field sales manager.

Mr. Pogash succeeds Sam Michaels who has resigned to join a Pittsburgh steel accessor-

Ernest H. Burleigh Joins de Loux, Inc.

Jacques de Loux, Inc. Sellorville. Pa., has appointed Ernest H. Burleigh sales manager. Mr. Burleigh was formerly associated with Lyle & Scott as a U.S. and Canadian sales agent.

De Loux, a full-fashioned mill, will expand to ladies' and men's sweater operations the company will erect new facilities on two recently acquired acres near the plant.

Ripon Knitting Moves N.Y.C. Sales Division

Ripon Knitting Works has moved its New York City sales division to Suite 608, 385 Fifth Ave.

The new office of the Wisconsin firm affords more space for shoe display and sales. The phone number remains the same, MUrray Hill 3-8013.

Double Pique Durene

A double pique fabric of Durene mercerized cotton has been introduced by Abaco Mills, New York City. The fabric is treated with Cyana. It is available in 66inch widths.

Financial

Sales Of Munsingwear Up 6.6% In Nine Months

MINNEAPOLIS, Minn. -Sales of \$33,814,578 for the first nine months of this year were reported by G. D. McConnell, president of Munsingwear, Inc., in report to stockholders.

This was an increase of \$2,101,998 or 6.6 per cent from the same period in 1959.

Earnings of \$1,125,680 after provision for income taxes were up \$99,094 from a year ago.

Exhibitions

Manchester Show Bookings 60% Ahead

MANCHESTER, England-Demand for space at the 1961 International Knitting Machinery & Accessories Exhibition, already makes this event larger by some sixty per cent than the last comparable exhibition, the International Knitting Machinery & Accessories Exhibition held in Leicester in 1956, organizers of the show report. The Exposition will be held October 11-21, 1961, in this

The 170 exhibitors who have booked space represent seven countries. Over half then are from overseas, Germany and Italy leading.

The response from British and foreign knitting and allied equipment builders, the show organizers claim, justifies the decision made some six months ago to stage the exhibition in the Belle Vue halls, here, which have twice the capacity of Leicester's Granby Halls.

Equipment to be displayed will include an exceptionally wide range of knitting machines of all types, an extensive range of machines for the knitting yarn preparatory processes, equipment for dyeing and finishing, the latest machines for garment fabrication, and the whole gamut of accessories and ancillary products used in the knitting industry.

Attendance is expected to be even greater than in 1956 when approximately 6,000 visitors, a day, the bulk of them mill executives passed through the exhibition.

Errata

Peter Pan Suit Colors

In the October 24 issue, it was erroneously noted that Oleg Cassini's collection of Orlon knits for Peter Pan swimwear were executed in red, white and blue only. This group of suits is available in a more extensive variety of colors including pas-

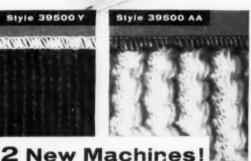
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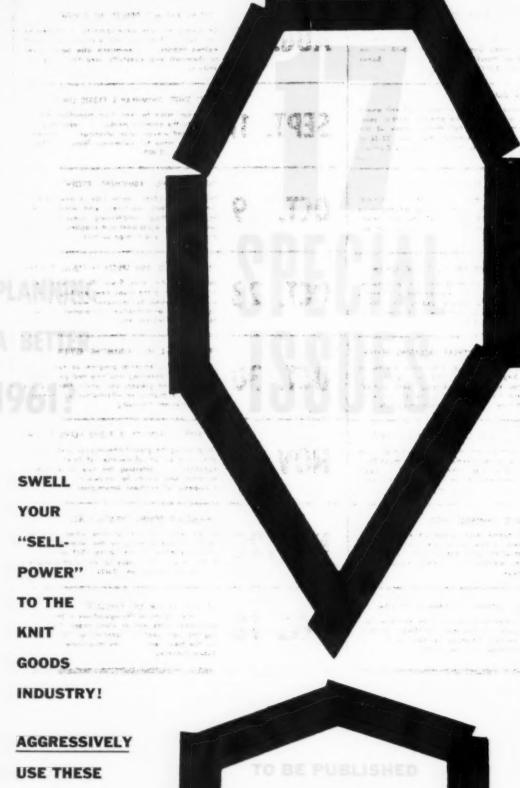
With high popularity in knitwear these two new machines produced by Union Special will be of special interest to manufacturers of knit outerwear -lightweight to bulkies. Users get better seam appearance and quality, plus high speed, fast acceleration and smoother, straighter seams WITH LESS OPERATOR GUIDANCE OR ASSISTANCE.

Style 39500Y is for seaming and trimming light to mediumheavy weight, loosely knitted, cotton, wool or synthetic fabrics used for sweaters, bathing suits, jackets, and other knitted outerwear. It is especially designed with ample differential feed action to handle stretchy, loosely knit materials. Standard width of bite is 1/8"-stitch range 8 to 20 per inch.

Style 39500 AA, may be used for plain seaming and trimming or for seaming, trimming, and simultaneously applying a reinforcing tape, as in shoulder seams of sweaters. A slot in the presser foot automatically guides the tape. Style 39500 AA is specially built to handle bulky knit materials. Standard width of bite is 5/32" - stitch range 8 to 20 per inch.

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"DRY GOODS WHOLESALERS' REVIEW" "DYFING AND WET PROCESSING REVIEW" A preview of Fall knit goods lines, issued in conjunction with the 34th annual National Wholesale Dry Goods Convention, Jan. 15-18 at the Statler-Hilton Hotel, New York City . . Benus Distribution—2,000. Reviewing all late developments in processing and dyeing of natural and synthetic yarns and knitted fabrics . . . emphasis also being given to chemicals and dyestuffs used for yarns and **AUG. 28** JAN. 16 "FALL KNIT GOODS REVIEW" "KHIT SHIRT, SWIMWEAR & FABRIC LINES" A comprehensive review of major Fall knit goods offerings available to the primary market, coincident with the 14th Fall Market Week of the The major issue for knit shirt manufacturers catering to the primary market . . . also featuring knitted and weven fabric offerings . . . summary promotion issue for swimwear firms . . . Benus Distribution—2,000. SEPT. 11 JAN. 23 Knitwear Mill Representatives Assn. Jan. 22-26 at the Sheraton-Atlantic Hetel . . . Bonus Distribution-2,000. "KNITTING MILL EQUIPMENT REVIEW" "KNITTING ARTS EXHIBITION REVIEW" Published in conjunction with the 45th bienniel World Trade Show For The Knitting Industry to be hold in Atlantic City, April 24-28. The issue serves as a "Guide to the Show" . . . Bonus Distribu-Bringing the industry up-to-date on new develop-ments in knitting machinery, and winding, sew-ing, cloth-cutting, conditioning, pressing, finish-ing and other equipment and supplies—available from domestic and foreign sources. APR. 24 tion-5,000. "ANNUAL WOOL AND SPECIALTY FIBERS REVIEW" "COTTON YARN AND KNITTED FABRIC REVIEW" Interpreting the "Wool Story" for knitwear readers . . . charting the many new, exciting developments responsible for increased wool appeal and Highlighting the role of cotton yarn in knitwear . . . reviewing all new knitted fabric offerings of cotton and other natural and synthetic fibers . . . published in conjunction with "National Cotton Week," May 15-20. OCT. 23 **MAY 15** usage . . . authoritative information on wortops, yarns, fabrics, etc. "KNITWEAR AND SWIMWEAR PACKAGING REVIEW" "FACTORING & MILL FINANCING REVIEW" Continuing our editorial program to explain the mechanics of Factoring and how knit goods manufacturers and jobbers can profit from its use . . . plus authoritative information on inventory and equipment financing. Recording the industry's heightened interest in new packaging methods and techniques . . . spotlighting successful packaging "case studies" . . helpful tips on packaging design and eval-uation of new packaging trends, materials. **OCT. 30 JUNE 12** "SYNTHETIC, NOVELTY, & BLEND YARNS REVIEW" "PREVIEW OF NEW SWIMWEAR FABRIC LINES" Pin-pointing the great technological developments streaming out of laboratories of fiber and yarn suppliers . . . stressing the role of synthetics, novelties and blends for knitwear . . . "An Encyclopedia of Synthetic Information". A pre-season delineation of rigid and elasticized woven and knitted swimwear fabrics, made from NOV. 6 JULY 17 natural and synthetic fibers . . . plus a report on 1961 swimwear styles . . . initial swimwear promotion issue to the primary market. "WHOLESALE SPRING SWEATER LINES" "OPENING OF SWIMWEAR LINES" A review of the sweater lines which mills and selling agents catering to the wholesele trade will be offering for the Spring 1962 season . . . summary promotion issue for knit shirt producers . . . Bonus Distribution—2,000, A "Style" special issue—timed just right—for the presentation of new ladies', men's and children's swim suit offerings to the primary market . . . augmented distribution to insure complete market coverage. **NOV. 20** "ANNUAL REVIEW AND FORECAST" "RIBBONS, BUTTONS & TRIMMINGS REVIEW" ANNUAL RETTER AND TORCLAS!
An overall report of the operations of the knitted outerwear trade and its allied supply fields during the past year . . . presenting "The Outlook for the New Year" . . . an invaluable "Guide to Future Planning." A comprehensive discussion—and extensive picterial display—of new types of ribbons, buttons, threads, knitted trimmings, accessories and zippers for knitwear and swimwear. **DEC. 18**

1961 KNITTED OUTERWEAR YEARBOOK-APRIL 20

Published in conjunction with the 43rd Annual Convention of the National Knitted Outerwear Association at the Waldorf-Astoria, New York City. Sent by mail to all TIMES subscribers. And, in addition, the "Yearbook" is personally presented to every executive attending the Convention. The "Yearbook" is the Knitwear Industry's only specialized Directory, Technical Manual and Buyer's Guide. It is acknowledged to be the trade's most useful reference tool and has a usual life span of at least a year.

For full information, detailed outlines of these special issues, call, write or wire...

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Knitted Outerwear Times

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Swimwear

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Maidenform Presents Premier Collection Of Swim Suits

LATEST newcomer to the swimwear field is Maidenform, Inc., known for the past 37 years solely as a manufacturer of brassiers and girdles. Included in this new swimwear resource's diversified collection are woven elasticized and knitted suits. The latter are principally of Helanca nylon blended with rubber or of 100 per cent

Helanca nylon. In addition, there are finely textured cotton and natural rubber knits.

Prints based on American motifs and developed in Italy make a bold appearance. Other print themes are taken from the jungle, the sea, the Orient and from flower gardens. Some of the colors in which these prints are executed are moss green, antique gold, blue-green, wild violet, hot pink and coral.

Broad style diversification is evidenced in the many backlines, necklines and silhouettes. Backs are conventional, scoop, V, U and squared off; necklines include portrait, drape, sweetheart,

U, V and scoop.

Sheaths and maillots are underscored more than any other silhouette, but new modifications include drape, sarong and apron skirts and the weskit midriff. There is also a bikini style featuring an adjustable lower half to conform to the wearer's desired amount of exposure.

Patterned Knits

The ensemble swim suit is very important in the Maidenform line. Coordinated tops in-



Wide panels of sueded Lastex frame the above large floral print and continue into the straps. Soft shirring below the waist ajusts to special figure requirements. Teamed with the suit are matching culottes.

clude the poncho, sleeveless jacket, coolie coat, artist's smock, and culottes.

The knitted swim suits represent nearly half the swim suits in the collection. Elasticized cotton is the material for three patterned models. The first, a one-piece low back maillot, is designed with horizontal multicolor stripes in graduated widths. Black filigree overprint adds interest from a texture, design and color standpoint. The second number is a one-piece sheath also of cotton and rubber. It is designed in a gold and green or purple and blue floral print with slightly dipped front and low back. A matchstick jacquard patterned of the same fiber composition is the basis of a twopiece maillot with drawstring adjustable bra and trunks as well as of a one-piece sheath that features a removable solid color cummerbund.

Helanca Nylon

Helanca nylon fortified for greater elasticity with rubber is used in a one-piece maillot designed in a mitered diamond striped pattern. This model has a V-neck and low back.

An interesting weskit front and button trim detail sets the style of a solid color one-piece maillot knitted of nylon and rubber yarn. Another one-piece maillot of the same fibers comes in black, royal blue, red and purple. It has a scoop front and back and French piping. Another nylon and rubber back fabric is outstanding for its richly textured surface achieved by a knitted-in diamond pattern covering the entire suit.

Indian symbols inspired the design of a totem pole print on a Helance nylon knit suit. The suit, done up in a sheath silhouette, has a back, picture frame neckline decorated in a wild violet all-over print.

Lastex Swimwear

Woven elasticized swim suits in the Maidenform collection

come in interesting surface texture constructions. A one- or two-piece maillot comes in sueded Lastex, on which is surprinted a voodoo pattern. Detailing includes solid color piping and double spaghetti straps. A classic sheath also of sueded Lastex has an all-over water flower print in soft shades of either green or blue.

Sueded Lastex is also cleverly used simply as a detail in the form of side panels framing a large floral print number. Adjustable shirring over hip section adds further interest and at the same time enables the suit to conform to the wearer's special figure requirements.

A trio of suits are executed in sharkskin Lastex. The first, a sheath with portrait drape neckline, has a self-sash and bow below the waist. Another sheath features draped front and top in sunburst stitching, the third is a one-piece boy leg model with

(Continued on Page 29)



The Lastex sheath above features special design and detail techniques. Note the inverted V of the sheath skirt and soft gathers at each end. Detail interest is in the stark white nylon flounce inserted over the bra for an elegant touch. A zipper closes



The Indian totem pole furnished inspiration for the abstract print above. The two-piece maillot has double spaghetti straps and trunks that adjust to the wearer's figure requirements and mood. The one-piece maillot has scoop neck and back. Both suits are knitted of 100 per cent Helanca nylon.



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Laminated Knits

Foam-Back Fabrics In Widespread Use

(Continued from Page 5) ing 100 per cent Acrilan. "We have faith in Acrilan," a sales representative says. The fiber appears in a sandwich laminate with tricot.

A representative of Security Mills, Inc. indicates the four walls of the exhibit room and says, "We have laminates of every description." The company is high on Orlon in various effects-frosty curl, rippled and shaggy.

Pyramid Mfg. Co.'s produc-tion of laminates has risen from 100,000 yards last year to an anticipated one million this year. It is showing bulky and fancy stitches, including racks, ribs, jacquards and waffle types, and experimenting with its own bonding process.

Among the other companies pushing laminates are Trim Knit, Inc. with its bulkies, in cotton, Durene wool; Malden Mills Sales Co., Inc., with bulkies in cotton, worsted, Durene, Orlon and wool and Orlon; Minnesota Knitting Mills with four weights of trim and a variety of stitches, including a popular Italian mottled knit, and Knitted Trimming Corp. with a foam called Stratolite for textiles made with DuPont's Hylene isocynate.

The laminators are happy with their windfall. They have just about solved the manufacturer's sewing problems and are now working out other kinks like resistance to water repellency.

Laminating consists of fusing by heat of fabric to polyurethane foam, which is made of many of the same chemicals as synthetic fibers. The chemicals are mixed and poured from a nozzle into strips that foam and rise. When cool, the foam is sliced into various thicknesses. The surface is melted and the fabric is rolled on to it. The molten surface cools and solidifies and the result is one fabric.

But when a fabric is heavily treated with a silicone, it becomes slippery and, as a consequence, difficult to laminate without burning off an excessive amount of the foam.

Among those working on the technical problems is The Eddytone Corporation. At a 17,000 square foot plant in Roselle, N. J. the firm has developed an electronically controlled heat process to bond fabric to foam, which it says will prevent burn. ing off, during heat sealing, of the foam beneath the adhering surface and assure uniformity.

Robert G. Eddy, president of the company, is particularly concerned with these and other technical developments.

The design potential of laminating has barely been Eddy says. scratched, Mr. 'Very few new fabric types have been created specifically for the purpose of being laminated. I feel the day is ending when the average off-the-shelf fabric is picked at random to be laminated."

He ticks off on his fingers the advantages of lamination-distability, mensional warmth without weight, resilience and body. "Lamination is an engineering tool. We expect to arrive at new and totally different products. When a manufacturer comes to us, we will discuss his fabric type and his fabric need (Continued on Next Page)

Knitting Equipment New Spring Needle Machine For Carpets

(Continued from Page 5) natural latex loaded with either fillers or extenders. Sometimes the natural latex is prevulcanized, or partially cured, to reduce the amount of curing necessary after application. The synthetic latices comprise neoprene latex, butadiene- styrene latices, nytrile latex, actually a polymerized butadiene- acrylonitrile, and latices based on polyvinyl chloride.

The carpet, carpet backing and paper scrim produced on the two Tompkins models are drawn to an overhead take-up as in the conventional Tompkins apparel fabric machines. The overhead take-up is claimed to result in production of fabric without spiral or loop distortion. The yarn is fed from floor creeks below the table on which the cylinder rests.

The needles, as in conventional Tompkins units, are leaded and fixed to the cylinder and rotate with it. Rotation of the burr blades is via contact with the needles.

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and work with him on every step of the process."

The laminating process, according to Mr. Eddy, must take into account the chemical and physical properties of the foam, the fiber type-cross-section and staple length-and the laminating itself.

In laminating, for instance, he believes both components, the fabric and the fiber, must be handled at near zero tension. No tenter frame should be used and the fabric should be steamed to relax it.

His company offers facilities for laminating tubular knits, for calendaring and for edge slitting on one or both sides.

Another laminator, Polymer Corp., or Haledon, N. J., makers of Vomar, finds more mills than ever designing specifically for lamination. Orlon and wool jersey is said to be the most laminated material. Nylon and acetate tricot is also undergoing the process in quantity.

At least fifteen million yards of knits will be laminated in the coming season, according to a company spokesman, who stressed the light weight as probably the principal advantage of laminated. The warmth of one and a half ounces to the square yard in a one-sixteenth thickness is said to be equal to that of six and a half ounces of reprocessed

The maintaining of width of a piece of cloth is the big prob-lem in laminating," according to Ed Axelrod, sales manager of Textilefoam, Inc., Palisades Park, N. J. "We maintain original because of our set-up and structure. We build our equipment to fit the cloth."

The company uses an oscillatng tape to measure every yard of the finished goods. Mr. Axelrod says 99 per cent of shrinkage has been eliminated. The water repellency problem is under investigation here, too. At present, the company will laminate to any wax base water repellent, but it advises against laminating to a silicone base. "However, we are going to solve that problem soon," Mr. Axelrod says. He reports that most of the laminates are fabrics with suede finishes.

At Reeves Brothers, Inc., makers of Curon, a representative sees the role of faminates getting "bigger and bigger" and "doubling in the next season."

Swimwear

Maidenform Presents Its First Swim Suits

(Continued from Page 27)

embroidered neckline and side front panels.

The remainder of the woven elasticized suits are printed numbers. Italian filigree design covers a suit with a bell shaped skirt and a one-piece sheath detailed with a soft drape on the bra and across the front.

Another number featuring similar draping is a multi-color tropical print sheath. Florals and landscapes also constitute themes of additional prints, many of which have the eased boy leg and subtle draping and pleating across bust and hips.

Special styling effects sparkle the solid color woven elasticized suits. Interest focuses on the neckline of a black classic sheath where a sheer Antron flounce is inserted for a touch of elegance and stark fabric contrast. Cuffed and pleated tops, asymmetrical front draping and draping ma-nipulated to form an apron front, constitute additional special touches.

Economic Index

Fiber Consumption Drops

(Continued from Page 1)

1959 rate. Consumption of apparel class wool was 13 per cent below the August rate and 12 per cent below the rate of September of last year.

Consumption of fibers other than raw wool averaged 4,597 thousand pounds per week. This was 17 per cent less than the rate during the preceding month and 16 per cent below the September, 1959 rate.

Sweater Shipments Up

(Continued from Page 1)

of women's, misses' and juniors' sweaters amounted to 796,000 dozen as compared with 958,-000 in August and 782,000 dozen in September a year ago.

Average weekly shipments of men's sweaters in September, 1960, stood at 76,000 dozen. In August the figure was 113,000 dozen and in September, 1959, 75.000 dozen.

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INDUSTRY'S MAIL CHUTE

Editor: Knitted Outerwear Times 386 Park Avenue South New York 16, N. Y. Dear Sir:

As I was involuntarily mentioned in the very instructive and interesting polemic between Mr. Hirschhorn and Mr. Reisfeld, I would like first of all to correct some erroneous statements concerning myself.

Mr. Hirschhorn did not clearly state that the tucking tricot machine was built by myself about 25 years ago. Mr. Hirschhorn himself used to work on it. It was never built at Native Laces and Textiles. I was well aware of the fact that the idea was not new at that time. But, I developed a special outerwear fabric and the only fine gauge machines available at that time were slow cut presser machines and the socalled Swiss Tricot Machines working on elastic mourning bands (Truerflor). The last type was also very slow and had only two bars. Therefore, Mr. Reisfeld's remark that, "I pioneered" this idea is out of place and incorrect. The same applies to Mr. Hirschhorn's remark that this product was of no commercial success. It was very successful when I manufactured it at that time and during my European study trip in 1959. I still saw it used.

Concerning both articles, I would like to add the following without going much into detail. Mr. Hirschhorn and Mr. Reisfeld restrict their criticisms concerning warp knitting with few exceptions mainly to tricot machines. This explains partly Mr. Reisfeld's remark, "Whereas Reisfeld's remark, circular knitters use specialized equipment . . . their tricot colleagues accomplish it with just one type of machine.'

We have special built high speed Raschel machines for netting, special built Raschel machines for laces and elastic power nets, to mention only a few of the many specialized warp knitting machines.

Even in the field of tricot machines, Mr. Reisfeld must be well aware of the fact that machines to make Angelace must STagg 2-7929 have a few attachments added

in order to manufacture the big variations of designs. Mr. Reisfeld will also agree with me that many of the more complicated stitch constructions of tricot novelty fabrics cannot successfully be manufactured on the newest high speed tricot machines, with their short motions. short and thin needles. He will also agree that the compound needles used on some high speed constructions are a partly limiting factor.

I congratulate both authors for their articles which helped to clear up much misunderstanding.

> Otto Engelhard, M.E. Director of Development and Research NATIVE LACES & TEXTILES, INC.

Yarn Suppliers

Joins Yarn Division Of Sidney Blumenthal

E. W. Ward, Jr. has joined the yarn division of Sidney Blumenthal & Co. as sales representative with additional responsibilities for sales promotion and product development.

John Wesley, the division sales manager, said Mr. Ward will handle sales of wool, acrylic, fiber and blend and specialty yarns to the outerwear trade in the metropolitan New York area.

Mr. Ward previously was New England district sales manager for John L. Stickley & Co.

Organizations

Chornyei Elected Head Of Bradford Dye Group

Ernest J. Chornyei has been elected president and chief executive officer of the Bradford Dyeing Association, U.S.A., it was announced by the board of directors meeting in Westerly.

Chornyei, who has been executive vice president with headquarters in New York City, succeeds James A. Stevenson, who has been elected chairman of the board.

Chornyei is currently vice president of the National Assn. of Finishers of Textile Fabrics.

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2-Phila. Jacq. TJ, 7 & 8 cut, 28", 6 feed, 4 col. strip.

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2-Queens Medel "B", 60", 9 & 12 cut, High & Lew needles, Jacks

2-Lamb double head border machines, 7 & 8 cut, with meters

2-Supreme flats, 44", 7 cut, high & lew butt

1-Dubled BAN, 56", 12 cut, Jacquards front & back

1-Supreme flat mach., 5 cut, 36"

5-Roby flat links, single & double jack

2-Universal Reto-coners, 20 spindle

1-Universal Supramat, 62", 12 cut

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FOR SALE

2 Jacquard TAI machines, 30", 121/2 cut jog control, now knitting jersey transfer.

Call HOllis 8-1100 or Write BOX 460L

HELP WANTED

KNITTER MECHANIC

Willing to relocate in North Carolina, Experienced on Philips Circular and Universal Collar machines. **BOX 467**

KNITTER-MECHANIC WANTED

Experienced on Circular Jacquard, Interlock and Flat machines. Capable of taking charge, New Jersey location.

BOX 469

WANTED PRODUCTION MANAGER

Knit fabric mill wants an experienced man to assist wner in management of mill. Good opportunity. Write BOX 676 Realservice Advertising, 110 W. 34 St., N. Y., N. Y.

KNITTING MILL-PRODUCTION CONTROL

Supervise yarn records and coordinate mill and office activities. Excellent future. Send complete resume.

BOX 466

KNITTER MECHANIC WANTED

Experienced on pattern wheel circulars. Year round job with good working conditions and pay. Located in upstate New York. Reply to:

BOX 450P

PRODUCTION MAN-DESIGNER

Complete charge boys' sweater department. Large mill expanding in this field. Wonderful opportunity. Salary open.

BOX 459

PRODUCTION MAN WANTED

for ladies' sweater jobber-knowledge of contractors, yarns, machinery, styling, etc. Excellent opportunity for the right man. All replies confidential.

BOX 464

YARNS WA

3000 lb 1100 lb 575 lb 525 lb 1000 lb

1650 lb 1750 lb 400 lb 400 lb 2200 lb

600 lb 850 lb 1500 lb

191 Br

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RASCHEL KNITTER MECHANIC

Experienced in pattern making, repairing, & operating machines. Take charge of department. Middlewestern plant. In reply, give salary desired, references and personal summary. All replies held confidential.

BOX 462

YARN SALESMAN WANTED

Synthetic and worsted yarns. Organization expanding sales staff. Would consider educated young man with practical knitting mill experience who has tired of mill confinement and wants to develop natural sales ability. Our staff has been advised of this ad.

BOX 460

PRODUCTION MAN WANTED

for men's sweater jobber-knowledge of contractors, yarns, machinery, styling, etc. Very lucrative offer to right man. All replies confidential.

BOX 435

YARNS WANTED, FOR SALE

YARNS FOR SALE - At Reasonable Prices

3000 lbs.-31/2 run, grey, 65% garnetted Orlan, 35% wool

1100 lbs.-31/2 run, aqua, 65% garnetted Orlan, 35% wool

575 lbs.—31/2 run royal, 65% garnetted Orlan, 35% wool

525 lbs.-31/2 run navy, 65% garnetted Orlan, 35% wool

1000 lbs.-31/2 run, blue heather, 86% lamb's wool, 10% alpaca, 4% nylon

1650 lbs.-3200 yds., loop yarns, white peacock, ginger, black, cones

1750 lbs.-9/1, 15/1, 1/32, 50/2, 60/2, black, Orlan and Acrilan acrylic cones

400 lbs.—2/27, maize, 100% Darvan nytril, cones

400 lbs.—1/32, lt. heather, 55% Orlon, 45% Arnel, cones

2200 lbs.—3 run, 3.5 run, 5 run, lamb's wool and Orlon acrylic, cones 600 lbs.—1¾ dk. brown, 2½ red, 100% Wool Shetland, cones

850 lbs.-2/14, 75% Wool, 25% Nylon, black, cones

700 lbs.—1% run, loden green, gold, wool and nylon, cones 1500 lbs.—1¾ and 2¾, camel, 75% wool, 22% mohair and 3% nylon

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with large following with chains, department stores, and buying offices. Presently employed, looking for a progressive mill or jobber to represent or to buy in as a principal. Knowledge of styling and production.

60X 460C

TOP NOTCH MECHANIC

Available on all flat machines. Experienced stylist on men's and ladies' bulkies. Willing to take complete charge of all knitting room details.

BOX 468

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BOX 465

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College graduate. Extensive experience in knitting, dyeing and finishing of synthetic knit goods. Willing to assume complete responsibility.

BOX 460M

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FRENCH LOOPING COMPANY

Experienced in all types of looping.

Call GL 6-2106

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CONTRACT WORK WANTED

4 and 6 cut Supremes. Also Interlock and 8, 10 and 12 cut TA machines. Good work. **BOX** 460G

CONTRACTORS WANTED

For ladies' cardigans, garnet yarn on 4 or 6 cut Circulars and on flat and circular Links and Links. Immediate production important.

BOX 460B

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CLOSE-OUTS

Men's, Boys', Ladies' sweaters, LS-PO and coats also sleeveless. Large and small lots. **BOX 460H**

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Cottons, Jerseys, Nylon Fleece, Lastex, Novelties, Metallics.
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CHARMKNIT CORP., 82 Franklin St., N.Y.C. WA 5-6828

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Ban-Lon and Orlen Acrylic Small or Large Lots

RIDGEWOOD YARN

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SALES REPRESENTATIVES WANTED, LINES WANTED

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Mfr. of popular priced ladies' bulky knit sweaters offering to reputable, established stock houses protected distributorships — expanding our operation — most territories open — lucrative opportunity — forward resume, state territories covered, etc. All replies confidential.

BOX 460E

BUSINESS OPPORTUNITIES

COMMISSION SALESMAN WANTED

to handle woolen spinning sales in Brooklyn, high quality established mill, competitively priced.

BOX 460K

TRADE WANTS

RATES: one insertion—35 cents per word. Words set completely in capitals — 40 cents per word. Box numbers count as two words. Minimum cost of advertisement—55.50. Minimum cest of Positions Wanted advertisements—55.00. Trade Wants for Monday's paper must be in by preceding Wednesday. 2 P.M. Please enclose payment with your order,

Philadelphian, executive or executive assistant, experienced in production control and sales-promotion coordination—former plant superintendent with three years experience in knit goods and swimwear—desires position. Willing to relocate. Call or write: Larry Friedman, 1021 Wellington Road, Jenkintown, Pa., TUrner 4-8562.

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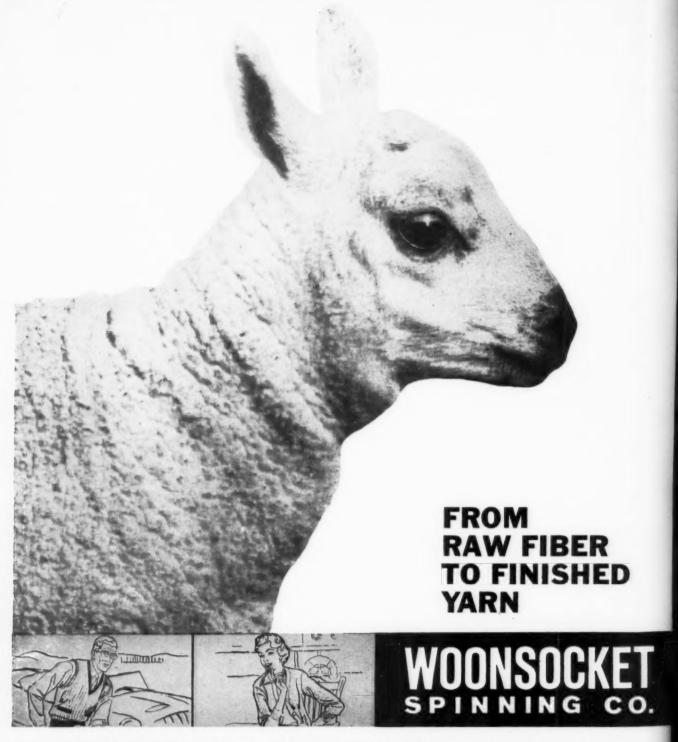
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